

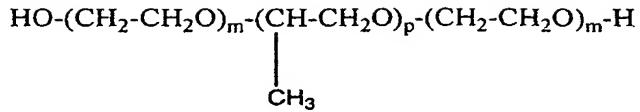
CLAIMS

1. Use of an aqueous solution or slurry comprising at least one alkylene glycol polymer and/or at least one alkylene glycol copolymer in which the alkylene(s) has (have) from 2 to 6 carbon atoms, for trapping ruthenium present in a gaseous effluent.
2. Use according to Claim 1, in which the alkylene glycol polymer is selected from the group consisting of polyethylene glycol, polypropylene glycol, polybutylene glycol, or a blend of these.
3. Use according to Claim 1, in which the alkylene glycol copolymer is a copolymer consisting of polymers selected from the group consisting of polyethylene glycol, polypropylene glycol and polybutylene glycol or a blend of these.
4. Use according to Claim 1, in which the alkylene glycol copolymer is a copolymer based on ethylene glycol, propylene glycol and butylene glycol.
5. Use according to Claim 1 or 3, in which the alkylene glycol copolymer is of the following formula (I):
$$\text{HO-(CH}_2\text{-CH}_2\text{O)}_m\text{-(CH-CH}_2\text{O)}_p\text{-(CH}_2\text{-CH}_2\text{O)}_m\text{-H}$$

|
CH₃

in which m and p are integers such that, independently,
 $1 \leq m \leq 8$ and $3 \leq p \leq 12$.
6. Use according to Claim 1 or 5, in which the alkylene glycol copolymer is an ethylene glycol/propylene glycol copolymer.
7. Use according to Claim 1, in which the aqueous solution or slurry is placed on a substrate made of fibres.

8. Use according to Claim 7, in which the substrate consists of a glass wool or a stainless steel wool.
- 5 9. Use according to Claim 7, in which the alkylene glycol polymer or the alkalene glycol copolymer is placed on the said substrate by dipping the substrate into an aqueous solution of the said polymer or of the said copolymer.
- 10 10. Use according to Claim 1, in which the alkylene glycol polymer or alkylene glycol copolymer has hydroxyl end groups.
- 15 11. Ruthenium-trapping cartridge, the said cartridge comprising a substrate on which an alkylene glycol polymer or an alkylene glycol copolymer is placed, in which the alkylene(s) has (have) from 2 to 6 carbon atoms.
- 20 12. Cartridge according to Claim 11, in which the alkylene glycol polymer is selected from the group consisting of polyethylene glycol, polypropylene glycol and polybutylene glycol.
- 25 13. Cartridge according to Claim 11, in which the alkylene glycol copolymer is a copolymer consisting of polymers selected from the group consisting of polyethylene glycol, polypropylene glycol and
- 30 polybutylene glycol.
14. Cartridge according to Claim 11, in which the alkylene glycol copolymer is a copolymer based on ethylene glycol, propylene glycol and butylene glycol.
- 35 15. Cartridge according to Claim 11 or 12, in which the alkylene glycol copolymer is of the following formula (I):



in which m and p are integers such that, independently,
1 ≤ m ≤ 8 and 3 ≤ p ≤ 12.

5 16. Cartridge according to Claim 11 or 15, in which
the alkylene glycol copolymer is an ethylene
glycol/propylene glycol copolymer, of a copolymer.

10 17. Cartridge according to Claim 11, in which the
substrate consists of fibres.

18. Cartridge according to Claim 11, in which the
substrate consists of a glass wool or a stainless steel
wool.

15 19. Cartridge according to Claim 11, 17 or 18, in
which the said alkylene glycol polymer or the said
alkylene glycol copolymer is placed on the said surface
by dipping the substrate into an aqueous solution of
20 the said polymer or of the said copolymer.

20 20. Cartridge according to Claim 11, the said
cartridge furthermore including a structure that
supports the substrate on which the alkylene glycol
25 polymer or copolymer is placed.

21. Cartridge according to Claim 11, comprising:

30 - the substrate on which the alkylene glycol
polymer or copolymer is placed, the said surface being
in the form of glass wool or stainless steel wool;

- a structure supporting the said substrate on
which the alkylene glycol polymer or copolymer has been
placed; and

35 - peripheral means for sealing the said
cartridge, making it necessary for the gaseous effluent
to pass through the said substrate.

22. Use according to Claim 1, in which the aqueous solution is added to the scrubbing water of a gas scrubbing unit.